

Abstract of the Disclosure

A stent for insertion into a vessel of a body and used in connection with a foil sheet, where the foil sheet comprises a radioactive material, is described. The stent and foil sheet are positioned so that the radioactive material in the foil sheet can deliver a desired dosage to an prescribed area, thereby reducing the distance for delivering the radioactive dose. The radioactive material may comprise carrier-free palladium 103. The foils screen may further comprise a shielding lay on one side for directing the dosage. A method for placing the stent and foil sheet into a vessel of a body is also described.